



BAQAI MEDICAL COLLEGE

3RD YEAR MBBS SESSION 2024-25



NEUROSCIENCES MODULE - II





SPIRAL II – INTERGRATED CURRICULUM NEUROSCIENCES MODULE - II STUDY GUIDE 3rd YEAR MBBS (SESSION 2024- 2025)



BAQAI MEDICAL COLLEGE BAQAI MEDICAL UNIVERSITY

51-Deh Tor, Gadap Road, Superhighway. P.O Box: 2407, Karachi-75340, Pakistan.

(092-21)34410-293 to 298, 34410-427 to 430

Fax: (092-21)34410-317, 34410-431

Email: info@baqai.edu.pk, Web: www.baqai.edu.pk/





PREFACE

The landscape of medical education is evolving rapidly, embracing a shift from teacher-centered to student-centered learning approaches across undergraduate and postgraduate levels. In response to these advancements, this study guide for the integrated modular system has been meticulously crafted to align with these changes, following the SPICES model of curriculum development.

- 1. Student-centered Approach: The course organization, content, and activities are predominantly structured around student engagement and empowerment.
- 2. Problem-Oriented Learning: Case-based learning is integrated into our modules to foster problem-solving skills among students.
- 3. Explicit Integration: Basic sciences content is seamlessly integrated with pre-clinical and clinical subjects to provide a comprehensive understanding of medical concepts.
- 4. Community Engagement: Field visits to satellite clinics and community healthcare centers offer students firsthand exposure to community-related health issues.
- 5. Elective Opportunities: Students are encouraged to pursue electives within our institution and other institutes to broaden their learning experiences.
- 6. Structured Program: Our curriculum unfolds systematically, starting from foundational medicine concepts and encompassing all facets of medical sciences in Spiral integration.

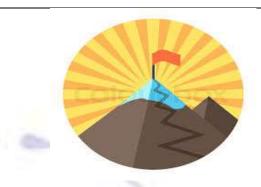
Therefore, this study guide serves as a comprehensive resource, offering content-related information, guidance on learning strategies, curriculum management, and outlines of student activities. It is designed to support the undergraduate MBBS program in a multidimensional manner, facilitating holistic learning and development.





Vision Mission





Baqai Medical University

To evolve as a nucleus for higher learning with a resolution to be socially accountable, focused on producing accomplished health care professionals for services in all spheres of life at the national and global level". The mission of Baqai Medical University is to be recognized as a center of excellence in education, research, patient care, and community services by producing highly capable and knowledgeable professionals.

Bagai Medical College

Our vision is to enhance access and excellence in medical education and research, with the aim of capacity building of students and faculty through innovations, and science and technology competencies, to achieve rapid and sustainable health. The medical graduate thus produced, will be informed, and trained enough to serve the community better, and to be an advisor to the national and international health organizations.

The mission of the Baqai Medical College is to produce medical graduates, who are responsible and accomplished individuals and have skills for problem-solving, clinical judgment, research, and leadership for a medical practice at the international level and are also aware of the health problems of the less privileged rural and urban population of Pakistan.





POLICIES AND PROCEDURES Code of Conduct and Maintenance of Discipline of Students Regulations Under section 25(e) BMU Act.1996

All University students shall be under the full disciplinary control of the University. No students shall be allowed to participate in politics. The action against the act of indiscipline shall include fines, debarring from attending class, and cancellation of admission, depending on the gravity of indiscipline.

The following shall constitute acts of indiscipline for which action may be taken against the student or students:

- (a) Breach of any rule public morals, such as:
- Use of indecent or filthy language;
- Use of immodest dress:
- Use of undesirable remarks or gestures; and
- Disorderly behavior, such as shouting, abusing, quarrelling, fighting and insolence.
- (b) Defiance of authority
- (c) Action, defamatory of and derogatory to Islam
- (d) Immorality
- (e) Being found under the effect of an intoxicant or misuse of drugs including marijuana, LSD dope and other opioids.
- (f) False personation or giving false information or willful suppression of information, cheating or deceiving.
- (g) Inciting or staging a walk-out, a strike, or an unauthorized procession.
- (h) Shouting of slogans derogatory to the prestige of the University or the reputation of its officers or teachers.
- (i) Visiting without a pass place which are not to be visited without a pass.
- (j) Visiting places declared out of bounds for students.

Every student must carry his / her Identity Card which will be open to examination and will be demanded at the time of entrance to the various University Faculties and functions.

No student will be admitted to the facilities of the library, transport, or the canteen unless he /she is in possession of the Identity Card.





OUTCOMES OF MBBS CURRICULUM

Utilize knowledge of basic and clinical sciences for patient care.

Take a Focused history, perform a physical examination, and formulate adiagnosis and management plan for common health problems.

Require professional behaviors that embody life-long learning, altruism, empathy, and cultural sensitivity in the provision of health care service

Identify problems, critically review literature, conduct research, and disseminate knowledge.

Lead other team members as per situational needs for quality health service.

Apply evidence-based practices for protecting, maintaining, and promoting the health of individuals, families, and community





Module II

NEUROSCIENCES MODULE - II





MODULAR COMMITTEE

1.	Dr. Sarah Azhar (Pathology)
2.	Dr. Nazia Jameel (Community Medicine)
3.	Dr. Faraz Saleem (Pharmacology)
4.	Dr. Rafay A. Siddiqui (Forensic Medicine)
5.	Ms. Maria Rahim (Research)
6.	Dr. Azra Shaheen (Behavioral Sciences)
7.	Dr. Dania Faisal (Medicine)
8.	Dr. S. Abdullah Bukhari (Surgery)





MODULAR DURATION

Module Number	Module Name	Dates	Duration	Module In charge	Assessment Date & Pattern
4.	Neurosciences Module - II	(19 th Aug – 20 th Sept, 2024)	5 weeks	Dr. Sarah Azhar	23 rd Sept. 2024 (Subject to minor changes) MCQs, SEQs & OSPE

ASSESSMENT TOOLS

- 1. Formative assessment
 - Quiz (face to face or online)
- 2. Summative assessment
 - MODULAR EXAM:
 - o A single modular exam will be held at the end of module which will include all the subjects taught in the module.
 - o Module will be assessed by MCQ, SEQ and OSPE / Viva.





DEPARTMENT OF PATHOLOGY LEARNING OBJECTIVES (3rd year MBBS)

By the end of each Lecture the students of 3rd year MBBS will be able to:

ТОРІС	MODE OF TEACHING	TIME (hours)	LEARNING OBJECTIVES	PROPOSED NAMES OF FACILITATORS
Patterns of injury in the Nervous System	Lecture #1	1	constituents of the nervous system to various forms of	Prof. Dr. Nasima Iqbal
Cerebrovascular Diseases I	Lecture #2	1	List the causes of cerebrovascular diseases.	Dr. M. Rizwan
Cerebrovascular Diseases II	Lecture #3	1	List the causes of intracranial haemorrhage. Discuss the pathogenesis of intracranial hemorrhage, aneurysms & vascular malformations, traumatic parenchymal and vascular cerebral injuries. Differentiate between epidural and subdural hematoma. List the symptoms and signs.	Dr. Maeesa Sajeel
Central Nervous System Infections	Lecture # 4		Identify the pathogens responsible for Central Nervous System Infections.	Dr. Nadeem
Infections of the Nervous System - I	Lecture # 5	1	List the various infectious agents of the nervous system. Describe the pathogenesis and related morphology of epidural and subdural infections. Compare aseptic meningitis, acute bacterial meningitis and chronic meningitis.	Dr. Sarah Azhar
Infections of the Nervous System - II	Lecture # 6	1	Discuss the pathophysiology and related	Dr. Ghazal Irfan





			Encephalitis Meningoencephalitides and Prion diseases	
Neuro- degenerative Diseases & Dementia	Lecture # 7	1	List the different neurodegenerative diseases of brain. Discuss the causes, pathogenesis & morphology of Alzheimer disease. Discuss the pathophysiology, clinical and morphological features of Parkinsonism. Explain the pathology and diagnosis of 2Huntington disease and spinocerebellar degenerations.	Dr. M. Khan
Edema, Herniation & Hydrocephalus	Lecture # 8	1	List the causes of generalized cerebral edema, vasogenic edema, cytotoxic edema & focally expanding mass lesions. List the causes of Hydrocephalus. Discuss the pathogenesis & morphology of Hydrocephalus causing disorders. Compare and Contrast Edema & Hydrocephalus. Differentiate different types of herniation, i.e., Subfalcine (cingulate), Trans-tentorial (uncinate) & Tonsillar herniation.	Dr. Munnazah Rashid
Primary diseases of Myelin	Lecture # 9	1	List the causes of primary diseases of myelin. Discuss the pathogenesis & morphology of Multiple Sclerosis, other Acquired Demyelinating diseases.	Prof. Dr. Nasima Iqbal
Tumors of Central Nervous System- I		1	Classify the tumours of CNS. Define and classify Glioma. Compare Astrocytoma, Oligo-Dendroglioma and Ependymoma based on their etiology, pathogenesis and morphology.	Dr. M. Rizwan
Tumors of Central Nervous System- II		1	Discuss poorly differentiated neoplasms of CNS i.e., Medulloblastoma, Meningioma & other metastatic tumors with their pathogenesis and morphology.	Dr. Maeesa Sajeel
Disorders and Demyelinating Diseases of Peripheral Nervous System	Lecture # 12	7	List the causes of peripheral Neuropathy. Describe the causes, pathogenesis & morphology of Guillain-Barré Syndrome. Explain Segmental Demyelination and Axonal Degeneration Classify demyelinating disorders. Discuss demyelinating disorders on the basis of their pathogenesis, morphology and clinical features	Dr. Sarah Azhar
Tumors of Peripheral Nervous System	Lecture # 13	1	Classify the tumors arising from peripheral nervous system.	Dr. Ghazal Irfan





Discuss the causes, pathogenesis and morphology of Schwannoma, Neuro-fibroma, and Malignant Peripheral Nerve Sheath Tumor.	

By the end of small group session, the students of 3^{rd} year MBBS will be able to:

ТОРІС	MODE OF TEACHING	TIME (hours)	LEARNING OBJECTIVES	PROPOSED NAMES OF FACILITATORS
Cerebro-vascular diseases	Tutorial # 1	2	Comprehend a given a clinical scenario Identify the gross & microscopic features of cerebrovascular accident.	Dr. Nadeem Umar Baqai
Infections Of CNS	Tutorial # 2	2	Differentiate between different types of infective encephalitis based on the given scenarios. Comprehend the lab findings. Differentiate between different types of infective meningitis based on the given scenarios. Comprehend the lab findings. Identify the specimen on the basis of morphology	Mr. M. Rizwan
Tumours of CNS	Practical #1	2	Recall the classification List the gross & microscopic features of important tumours of CNS.	Dr. M. Yasir Rishi
FORMATIVE ASSESSMENTS	Interactive session Followed by quiz and its feedback	2	Assess the comprehension of key concepts Identify any misconceptions Facilitate peer review Understand the immediate feedback by which they can reflect on their learning and make improvements.	Dr. Sarah Azhar





DEPARTMENT OF PHARMACOLOGY LEARNING OBJECTIVES (3rd year MBBS)

By the end of each Lecture the students of 3^{rd} year MBBS will be able to:

				PROPOSED
TOPIC	MODE OF TEACHING	TIME (hours)	LEARNING OBJECTIVES	NAMES OF FACILITATORS
Local anesthetics	Lecture # 1		Define anesthesia. Define Local anesthetics. Classify local anesthetics withexamples. Explain mechanism of action of Lidocaine. List the pharmacokinetic populs of Lidocaine. List the common side effects and contraindications of Lidocaine. List the drug interactions of Lidocaine.	Prof. Dr. Nadeem
General anesthetics i (inhaled)	Lecture # 2		Define general anesthesia. Classify General anesthetics Discuss stages of Anesthesia (1to 4). Discuss patient protocol for Anesthesia selection. Explain mechanism of action of inhaled anesthetics. (Halothane, NO2, Isoflurane) List the pharmacokinetic properties of these drugs List the pharmacological effects of these drugs on various organ systems. List the common adverse effects and contraindications of these drugs.	Prof. Dr. Asif
General anesthetics ii (intravenous)	Lecture # 3	1	Classify intravenous anesthetics Explain mechanism of action of Propofol and Ketamine. List the pharmacokinetic properties of Propofol and Ketamine. List the pharmacological effects of Propofol and Ketamine on various organsystems. List the common adverse	Dr. Urooj





			effects and contraindications of Propofol and Ketamine.	
Sedative- hypnotics	Lecture # 4	1	Classify Benzodiazepines and Barbiturates according to duration of action. Explain the mechanism of action of Benzodiazepine (Diazepam)(Phenobarbital) List the pharmacokinetics properties of these drugs. List the clinical uses of these drugs List the adverse effects and contraindications of these drugs	Prof. Dr. Nadeem
Anti- depressants	Lecture # 5	1	Outline pathophysiology of depression. Classify antidepressants onbasis of their mechanism ofaction. List the pharmacokinetics properties of Fluoxetine, Venlafaxine, Imipramine, Phenelzine. List the clinical uses of these drugs List the adverse effects & contraindications of these drugs	Prof. Dr. Asif
Drugs used in epilepsy	Lecture # 6	3	Define and classify seizures. Classify anti-epileptic drugs. Explain mechanism of aCarbamazepine and Valproic acid. List the pharmacokineticsproperties of these drugs. Correlate the clinical uses of these anti-epileptics with the type of seizures. List the adverse effects and contraindications of these drugs	Prof. Dr. Nadeem
Anti- Parkinson drugs	Lecture # 7	40	Classify Anti Parkinson'sdrugs. Explain mechanism of action of Levodopa and Carbidopa. List the pharmacokineticsproperties of these drugs. List the clinical uses of List the adverse effects and contraindications of these drugs.	Dr. Faraz
Drugs used in neurodegenerative disorders	Lecture # 8	1	Classify the drugs used totreat Alzheimer's disease, multiple sclerosis and Amyotrophic lateral sclerosis (ALS). Explain the mechanism ofaction of Rivastigmine, Interferon-beta, Riluzole.	Dr. Sehrish





			List the pharmacokineticsproperties of these	
			drugs. List the adverse effects of thesedrugs	
			Outline pathophysiology of bipolar disorder.	
			List the drugs for bipolar disorder.	
D C 1: 1			Explain mechanism of action of Lithium.	
Drugs for bipolar	Lecture # 9	1	List the pharmacokineticsproperties of	Dr. Humaira
disorder			Lithium.	
			List the common adverseeffects and	
			contraindications of Lithium.	
			List the opioid agonists and antagonists with	
		1	respect to target receptors.	
			Explain mechanism of action of Morphine and	
2	Lecture # 10		Codeine.	Dr. Faraz
Opioid agonists		1	Correlate clinical use of Morphine and Codeine.	
ndantagonists			List the pharmacokinetics properties of	
			Morphine and Codeine.	
			List the common adverseeffects and	
			contraindications of opioids.	
			Define Drug Abuse	
D C 1	T , U 11		Classify Drugs of Abuse	Dr. Sehrish
Drugs of abuse	Lecture # 11	1	Enumerate various steps of the management of	
			various drugs of abuse.	
			Outline pathophysiology of psychotic disorder.	
			Classify anti-psychotic drugs.	
100			Explain mechanism of action of	
100			Chlorpromazine, Haloperidol and	
Anti-psychotic	I a advisor # 10	1/1/	Fluphenazine.	Dung Du Anif
disorders	Lecture # 12	1	List the pharmacokineticsproperties of these	Prof. Dr. Asif
(1)			drugs.	JC:
- 1	130	->-	List the clinical uses ofdrugs	F-11
			List the common adverse effects and	
		7	contraindications of these drugs.	





By the end of each Small Group Session (Tutorial) the students of $3^{\rm rd}$ year MBBS will be able to:

TOPIC	MODE OF TEACHING	TIME (hours)	LEARNING OBJECTIVES	PROPOSED NAMES OF FACILITATORS
Anesthesia	Tutorial # 1	2	List pre-anesthetic medications. Discuss the role of anti-cholinergic and benzodiazepines as pre-anesthetic medications. Discuss the pharmacodynamics and pharmacokinetics Thiopental. Explain the pharmacological management of the given case	Dr. Hina
Anxiety disorders	Tutorial # 2	2	Discuss the pharmacodynamics and pharmacokinetics of Lorazepam. Write down the prescription of the givencase.	Dr. Sehrish
Depression	Tutorial # 3	2	Define serotonin syndrome.	Dr. Izrum
Epilepsy &Status Epilepticus	Tutorial # 4	2	Define Status Epilepticus. List drugs used to treat Status Epilepticus. Discuss the pharmacodynamics and pharmacokinetics of Ethosuximide, Gabapentin and Lamotrigine. Write down the prescriptions of the given case.	Dr. Hina
Parkinson's disease	Tutorial # 5	2	Discuss the pharmacodynamics and pharmacokinetics of Entacapone. Selegaline and Bromocriptine	Dr. Hina
Opioids	Tutorial # 6	2	Discuss the sign and symptoms of Opiatewithdrawal syndrome. List the drugs used to treat Opiatewithdrawal syndrome. Discuss the pharmacodynamics and pharmacokinetics of Methadone, Naloxone and Nalbuphine. Explain the pharmacological management of the given case.	Dr. Sehrish
Introduction to powders	Tutorial # 7	2	Define Powders. List the ingredients of powders `	Dr. Izrum





By the end of each small group session (practical) , the students of $3^{\rm rd}$ year MBBS will be able to:

ТОРІС	MODE OF TEACHING	TIME (hours)	LEARNING OBJECTIVES	PROPOSED NAMES OF FACILITATORS
Preparation and dispensing of simple powder	Practical # 1	2	Define simple powders along withexamples Demonstrate the steps of preparation and dispensing of Phenobarbitone powder. List the uses of Phenobarbitone powder.	Dr. Sumreen
Preparation and dispensing of compound powder	Pracetical #	2	Define compound powders along withexamples Demonstrate the steps of preparation and dispensing of Hyoscine Hydro Bromide and pilocarpine powder. List the uses of pilocarpine powder, hyoscine Hydro Bromide powder	Dr. Hina
Demonstration of the effects of local anesthetic on leg of frog	Practical # 3	2	Differentiate between surface anesthesia and infiltrative anesthesia. Demonstrate the effects of local anesthetic i.e. Lidocaine 2% as surface an esthetic and infiltrative anesthetic onleg of frog.	Dr. Sumreen

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DEPARTMENT OF FORENSIC MEDICINE LEARNING OBJECTIVES (3rd year MBBS)

By the end of each lecture, the students of 3rd year MBBS will be able to:

ТОРІС	MODE OF TEACHING	TIME (hours)	LEARNING OBJECTIVES	PROPOSED NAMES OF FACILITATORS
CNS Stimulants	Lecture # 1	1	List the Uses of all the above CNS Stimulants. Describe the Mechanism of Action of all these. List the Treatment options for Poisoning of all. Diagnose the Signs & Symptoms of all these Poisonings	Dr. Jan e Alam
Spinal Poison	Lecture # 2	1	List the Uses of all the above Spinal poisons Describe the Mechanism of Action the poisons List the Treatment options for Acute Poisoning Diagnose the Acute Signs & Symptoms of all these Poisonings	Dr. Rafay A. Siddiqui

By the end of each small group session (practical) , the students of $3^{\rm rd}$ year MBBS will be able to:

TOPIC	MODE OF TEACHING	(nours)	LEARNING OBJECTIVES	PROPOSED NAMES OF FACILITATORS
Somniferous & Spinal Poisons	Practical#1	2	Somniferous Poisons. Describe the Mechanism of Action of all these. List the Treatment options for Acute Poisoning as well as Chronic Poisoning of all. Diagnose the Chronic Signs & Symptoms of all. Diagnose the Acute Signs & Symptoms of all these Poisonings	Dr. Jan-e-Alam





Inebriant & Oil Poisons	Practical#2	2	List the Uses of all the above Oil & Inebriant Poisons. Describe the Mechanism of Action of all these. List the Treatment options for Acute Poisoning as well as Chronic Poisoning of all. Diagnose the Chronic Signs & Symptoms of all. Diagnose the Acute Signs & Symptoms of all these Poisonings	Dr. Muzammil Iqbal
Peripheral Nerve Poisons	Practical#3	2	List the Uses of all the above Peripheral Nerve Poisons. Describe the Mechanism of Action of all these. List the Treatment options for Acute Poisoning as well as Chronic Poisoning of all. Diagnose the Chronic Signs & Symptoms of all. Diagnose the Acute Signs & Symptoms of all these Poisonings	Dr. Jan-e-Alam
Deliriant & Neurotic Poisons	Practical#4	2	List the Uses of all the above Deliriant & Neurotic Poisons. Describe the Mechanism of Action of all these.	Dr. Muzammil Iqbal
Corrosives I	Practical#5	2	Classify Corrosives Describe the Mechanism of Action	Dr. Jan-e-Alam

MEDICAL





DEPARTMENT OF COMMUNITY MEDICINE LEARNING OBJECTIVES (3rd year MBBS)

By the end of each lecture, the students of 3^{rd.} year MBBS will be able to:

TOPIC	MODE OF TEACHING	TIME (hours)	LEARNING OBJECTIVES	PROPOSED NAMES OF FACILITATORS
Stroke prevention	Lecture #1	01	Describe the prevalence, burden, and impact of stroke on individuals and communities List modifiable and non-modifiable risk factors for stroke Discuss the primary and secondary prevention strategies for stroke	Prof. Dr. Nazia Jameel
Parkinson's disease prevention	Lecture #2	01	Discuss the epidemiology of Parkinson's disease. List the risk factors for Parkinson's disease Describe the prevention strategies for Parkinson's disease	Prof. Dr. Nazia Jameel
Neurological diseases in children	Lecture #3	01	List prevalent neurological diseases in children Discuss the strategies, interventions and practices for the prevention of neurological diseases in children	Prof. Dr. Nazia Jameel





DEPARTMENT OF RESEARCH LEARNING OBJECTIVES (3rd year MBBS)

By the end of each lecture, the students of 3^{rd.} year MBBS will be able to:

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ТОРІС	MODE OF TEACHING	TIME (hours)	LEARNING OBJECTIVES	PROPOSED NAMES OF FACILITATORS
How to			Detail the contents of an informed consent	
develop an	Small group	2	form	Group
Informed	teaching	2	Arrange the contents of an informed	supervisors
Consent Form	100		consent form	
	Lecture	1+1	The types of clinical questions.	1
			Describe the areas of knowledge gap	
Generating			pertaining to a clinical situation	
Questions and	1		To formulate well-built questions based on	Ma Maria Dahim
Searching the Relevant Literature	1 -		patient or problem, intervention,	ivis, iviaita Kaiiiiii
	. \		comparative intervention,	A
1		177	Describe the outcome and the advantages	11/1
1.0	1	. 17	of well-formulated questions	1.





DEPARTMENT OF MEDICINE & ALLIED LEARNING OBJECTIVES (3rd year MBBS)

By the end of each lecture, the students of $3^{\text{rd.}}$ year MBBS will be able to:

ТОРІС	MODE OF TEACHING		LEARNING OBJECTIVES	PROPOSED NAMES OF FACILITATORS
Stroke	Lecture # 1		Define and classify strokes: Differentiate between ischemic and hemorrhagic strokes Identify the common signs and symptoms of stroke, including motor deficits, sensory deficits, speech disturbances, and visual changes. Interpret neuroimaging studies: Understand the role of CT scans and MRI in diagnosing and characterizing different types of strokes. Describe the principles of acute stroke management.	Dr. Dania Faisal
Acute Bacterial Meningitis	Lecture # 2	1	Identify the typical clinical manifestations of acute bacterial meningitis. Describe the most common bacterial pathogens responsible for acute bacterial meningitis. Explain the appropriate diagnostic tests used to confirm acute bacterial meningitis. Discuss the significance of cerebrospinal fluid (CSF) analysis, including cell count, protein, and glucose levels. Describe the principles of treatment for acute bacterial meningitis, including the use of antibiotics.	Dr. Dania Faisal





Parkinson's Disease	Lecture # 3	1	Understand and describe what Parkinson's disease is, its clinical manifestations. Identify the prevalence of PD and common risk factors associated with the development of the disease. Recognize the hallmark clinical features of PD. Understand the diagnostic criteria and methods used to confirm PD. Discuss the pharmacological approaches used to manage PD symptoms.	Dr. Dania Faisal
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DEPARTMENT OF SURGERY & ALLIED LEARNING OBJECTIVES (3rd year MBBS)

By the end of each lecture, the students of $3^{\rm rd.}$ year MBBS will be able to:

ТОРІС	MODE OF TEACHING		LEARNING OBJECTIVES	PROPOSED NAMES OF FACILITATORS
Traumatic Brain injury(A)	Lecture # 1	1	To be familiar with the physiology of cerebral blood flow and the pathophysiology of raised intracranial pressure Classification of head injury Indications of Ct scan in head trauma Glasgow coma scale	Dr. S. M. Abdullah Bukhari
Traumatic Brain injury(B)	Lecture # 2	1	To understand the following: Fractures: skull base Fractures: skull vault Extradural hematoma Subdural Hematoma Subarachnoid Haemorrhage Cerebral contusions	Dr. S. M. Abdullah Bukhari
Hydrocephalus	Lecture # 3	1	To understand hydrocephalus and its surgical management	Dr. S. M. Abdullah Bukhari





DEPARTMENT OF BEHAVIORAL SCIENCES LEARNING OBJECTIVES (3rd year MBBS)

By the end of each lecture, the students of 3^{rd.} year MBBS will be able to:

	MODE OF TEACHING	TIME (hours)	LEARNING OBJECTIVES	PROPOSED NAMES OF FACILITATORS
Society, Culture & Health	Lecture # 1	F	Cultural beliefs, attitudes, values, social class, Myths, stigma sick role and illness, Health belief models	Dr. Azra Shaheen
Treatment Adherence	Lecture # 2	1	Doctors' factors Patients' factors Drug factors How to improve compliance.	Dr. Azra Shaheen
Depression	Lecture # 3	1	Distinguish between sadness and depression Diagnostic criteria of Major depression Causes of depression Treatment of depression	Dr. Azra Shaheen





<u>DEPARTMENT OF BIOETHICS</u> <u>LEARNING OBJECTIVES</u> (3rd year MBBS)

By the end of each lecture, the students of 3^{rd.} year MBBS will be able to:

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TOPIC	MODE OF TEACHING	TIME (hours)	LEARNING OBJECTIVES	PROPOSED NAMES OF FACILITATORS
Ethical issues & dilemma	Interactive Lecture	2		Dr. Tooba Khan





TENTATIVE* TIME TABLES FOR NEUROSCIENCES MODULE - II





3rd year MBBS Session 2024-25

*PLEASE NOTE: THESE ARE TENTATIVE TIME TABLES, SUBJECTED TO MINOR CHANGES







		19th AUGUST 202	4 - 23 rd Au	gust 2024			
WEEK 1	8.30 - 9.30	9.30 - 10.30	10.30-	10.45-	01.45-	02.00 - 04.00	
	Lect I	Lect II	10.45	01.45	02.00	Practical / Tutorial	
Monday 19-08-2024	Patho. Patterns of injury in the Nervous System	Pharma. Sedatives & Hypnotics				Patho (A) Pharma (B) For. Med. (C) SDL (D)	
Tuesday 20-08-2024	Behv. Sci.	Patho. Cerebrovascular Diseases I		CLINICS / WARDS	SDS	REAK	Patho (B) Pharma (C) For. Med. (D) SDL (A)
Wednesday 21-08-2024	Patho. Cerebrovascular Diseases II	Com. Med Stroke prevention	TEA BREAK		NAMAZ & LUNCH BREAK	Patho (C) Pharma (D) For. Med. (A) SDL (B)	
Thursday 22-08-2024	Med. Stroke	For. Med. CNS Stimulants	Π		NAMAZ	Patho (D) Pharma (A) For. Med. (B) SDL (C)	
Friday 23-08-2024	For. Med. Spinal Poison	Surg. Traumatic Brain injury(A)				RESEARCH	
LECTURES: Will be conducted in PHARMACOLOGY LECT. HALL, 2 nd Floor, BLOCK B							
	OLOGY TUTORIAL gy Lab, 2 nd floor, Block B	Cerebro-vasc	ular diseas	es	3/		
	COLOGY PRACTICAL Lab, 2 nd floor, Block B)	' Introduction	to powder	rs			
	ENSIC MEDICINE Iuseum, 2 nd floor, Block	B) Somniferous &	Spinal Pois	sons			





		26th AUGUST 20	$024-30^{th}$ A	August 202	4	
WEEK 2	8.30 - 9.30	9.30 - 10.30	10.30-	10.45-	01.45-	02.00 - 04.00 Practical /
	Lect I	Lect II	10.45	01.45	02.00	Tutorial
Monday 26-08-2024	Patho. Central Nervous System Infections	Pharma. General anesthetics (nhaled)				Patho (A) Pharma T (E For. Med. (C
Tuesday 27-08-2024	Surg. Traumatic Brain injury(B)	Patho. Infections of the Nervous System - I		CLINICS / WARDS	3REAK	Patho (B) Pharma T (C For. Med. (A
Wednesday 28-08-2024	Patho. Infections of the Nervous System – II	Com. Med Neurological diseases in children	TEA BREAK		NAMAZ & LUNCH BREAK	Patho (C) Pharma T (A For. Med. (B
Thursday 29-08-2024	Pharma General anesthetics ii(intravenous)	Med. Acute Bacterial Meningitis	L		NAMAZ	Pharma P (A SDL (B)
Friday 30-08-2024	Behv. Sci. Society, Culture & Health	Pharma. Local anesthetics				Pharma P (E SDL (A)
LECTU	RES: Will be conducted	l in PHARMACOLO	GY LECT	T. HALL, 2	nd Floor, B	LOCK B
	OGY TUTORIAL Lab, 2 nd floor, Block B)	Infectio	ons of CNS	18	8)	
PHARMACOLOGY TUTORIAL (Pharma Lect Hall, 2 nd floor, Block B)		Anesthesia				
	LOGY PRACTICAL b, 2 nd floor, Block B)	Demonstration of the effects of local anesthetic on leg of frog				
	SIC MEDICINE eum, 2 nd floor, Block B)	Deliriant & N	Neurotic Po	oisons		





		02 nd September 2024	– 06 th Sept	ember 2024	1	
WEEK 3	8.30 - 9.30	9.30 - 10.30	10.30-	10.45-	01.45-	02.00 - 04.00
	Lect I	Lect II	10.30-	01.45	02.00	Practical / Tutorial
Monday 02-09-2024	Patho. Neuro- degenerative Diseases & Dementia	Pharma. Drugs used in neurodegenerative disorders				
Tuesday 03-09-2024	Patho. Primary diseases of Myelin	Com. Med. Parkinson's disease prevention	y	RDS	BREAK	
Wednesday 04-09-2024	Pharma Anti-Parkinson drugs	Med Parkinson's Disease	TEA BREAK	CLINICS / WARDS	NAMAZ & LUNCH BREAK	TENTATIVE BMU SPORTS WEEK
Thursday 05-09-2024	Patho. Edema, Herniation & Hydrocephalus	Surg. Hydrocephalus	-	CT	NAMAZ	
Friday 06-09-2024	Behv. Sci Depression	Pharma. Anti- depressants				1

LECTURES: Will be conducted in PHARMACOLOGY LECT. HALL, 2nd Floor, BLOCK B

MEDICAL COL





	09 th September 2024 – 13 th September 2024								
WEEK 4	8.30 - 9.30	9.30 - 10.30	10.30-	10.45-	01.45-	02.00 - 04.00			
	Lect I	Lect II	10.30-	01.45	02.00	Practical / Tutorial			
Monday 09-09-2024	Patho. Tumors of Central Nervous System- I	Pharma. Drugs used in epilepsy		SO	REAK	Patho (A) Pharma-1 (B) For. Med1 (C)			
Tuesday 10-09-2024	Pharma. Drugs for bipolar disorder	Patho. Tumors of Central Nervous System- II				Patho (B) Pharma-1 (C) For. Med1 (A)			
Wednesday 11-09-2024	CBL		TEA BREAK	CLINICS / WARDS	UNCHB	Patho (C) Pharma-1 (A) For. Med. – 1 (B)			
Thursday 12-09-2024	Pharma. Anti-psychotic disorders	Patho Disorders and Demyelinating Diseases of Peripheral Nervous System	TEA	CLINIC	NAMAZ & LUNCH BREAK	Pharma-2 (A) For. Med-2. (B)			
Friday 13-09-2024	Pharma Tutorial Anxiety (Group A & B)					For. Med-2 (A) Pharma-2 (B)			
LECTURES: Will be conducted in PHARMACOLOGY LECT. HALL, 2 nd Floor, BLOCK B									
PATHOLOGY TUTORIAL (Hematology Lab, 2 nd floor, Block B) Tum			ours of CNS		3				
PHARMACOLOGY TUTORIAL-1 (Pharma Lect Hall, 2 nd floor, Block B)		De	Depression						
PHARMACOLOGY TUTORIAL-2 (Pharma Lect Hall, 2 nd floor, Block B)		Epilepsy &	Epilepsy & status epilepticus						
FORENSIC MEDICINE - 1 (For. Med. Museum, 2 nd floor, Block B)		Inebriant	Inebriant & Oil Poisons						
FORENSIC MEDICINE - 2 (For. Med. Museum, 2 nd floor, Block B)		Con	Corrosives I						



 $\begin{tabular}{ll} FORENSIC MEDICINE \\ (For. Med. Museum, 2^{nd} floor, Block B) \\ \end{tabular}$

BAQAI MEDICAL COLLEGE 3rd YEAR MBBS (2024 – 2025) (NEUROSCIENCES MODULE - II)



16 th September 2024 – 20 th September 2024								
WEEK 5	8.30 - 9.30 Lect I	9.30 - 10.30 Lect II	10.30- 10.45	10.45- 01.45	01.45- 02.00	02.00 - 04.00 Practical / Tutorial		
Monday 16-09-2024	Behv. Sci Treatment Adherence	Pharma. Opioid agonists andantagonists	TEA BREAK	CLINICS / WARDS	NAMAZ & LUNCH BREAK	Patho (A) Pharma-1 (B) For. Med. (C)		
Tuesday 17-09-2024	Patho Tumors of Peripheral Nervous System	Pharma. Drugs of abuse				Patho (B) Pharma-1 (C) For. Med. (A)		
Wednesday 18-09-2024	BIOETHICS	ЕВМ				Patho (C) Pharma-1 (A) For. Med. (B)		
Thursday 19-09-2024	Pharma Preparation anddisper (A) Preparation anddisper powd		CLD	NAMAZ	Pharma-2 (A) SDL (B)			
Friday 20-09-2024	Pharma Preparation anddisper () Preparation anddisper powd				Pharma-2 (B) SDL (A)			
LECTUI	RES: Will be conduct	ed in PHARMACOL	OGY LEC	T. HALL,	2 nd Floor, l	BLOCK B		
PATHOLOGY TUTORIAL (Hematology Lab, 2 nd floor, Block B) Formative assessment								
	OGY TUTORIAL-1 ill, 2 nd floor, Block B)	Opioids						
PHARMACOLOGY TUTORIAL-2 (Pharma Lect Hall, 2 nd floor, Block B)		Parkinson's disease						

Peripheral Nerve Poisons





TENTATIVE DATE FOR MODULAR ASSESSMENT: 23rd September, 2024



Baqai Medical College Baqai Medical University

51-Deh Tor, Gadap Road, Superhighway. P.O Box: 2407, Karachi-75340, Pakistan.

(092-21)34410-293 to 298, 34410-427 to 430

Fax: (092-21)34410-317, 34410-431

Email: info@baqai.edu.pk, Web: www.baqai.edu.pk/